

approximating the display characteristic of said display unit in accordance with the color value of the color chart signal outputted from said signal output unit and in accordance with the interactive input entered through said input unit.

2. (TWICE AMENDED) A display characteristics recognition apparatus according to claim 1, wherein said display characteristics identification unit determines, as the display characteristic, a relationship between a signal representative of a white image and a color of an image displayed on said display unit in accordance with the signal.

3. (TWICE AMENDED) A display characteristics recognition apparatus according to claim 2, wherein said display unit is selectively set up to any one of a plurality of display characteristics, and

said display characteristics identification unit determines display characteristics parameters to which said display unit is set up.

4. (TWICE AMENDED) A display characteristics recognition apparatus according to claim 1, wherein said display unit is a display in which an image is displayed through emission of light, and

said display characteristics identification unit determines, as the display characteristic, luminance of said display.

5. (TWICE AMENDED) A display characteristics recognition apparatus according to claim 1, wherein the color chart signal is such that the color value is in one of two color perception areas adjacent to one another on a chromaticity diagram, and the color chart signal is displayed in chromaticity according to the display characteristic.

6. (TWICE AMENDED) A display characteristics recognition apparatus according to claim 1, wherein said input unit enters a name of a color interactively selected from among color names associated with the color value of the color chart signal.

7. (TWICE AMENDED) A display characteristics recognition apparatus according to claim 1, wherein said signal output unit outputs to the display unit a plurality of color chart signals each representative of a monochrome figure with a different color value to said display unit;

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said input unit enters a name of a color of each of a plurality of monochrome figures; and
said display characteristics identification unit determines the display characteristic of said
display unit in accordance with the color values of the plurality of color chart signals outputted
from said signal output unit and the plurality of names of the color entered through said color
name input unit.

11. (TWICE AMENDED) A display characteristics recognition apparatus according to
claim 1, wherein said signal output unit outputs a series of color chart signals such that a series
of colors in color perception areas adjacent to one another on a chromaticity diagram are
displayed, and

the interactive input indicates or identifies a color corresponding to a boundary of the
two color perception areas.

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12. (TWICE AMENDED) A display characteristics recognition apparatus according to
claim 1, wherein said display characteristics recognition apparatus further comprises a profile
producing unit for generating data representative of display characteristics determined by said
display characteristics identification unit in a predetermined format to produce a profile
representative of characteristics as to display of an image by said display unit including the data.

14. (TWICE AMENDED) A storage medium storing a display characteristics
recognition program for performing a process, the process comprising:

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displaying an image with a color displayed according to both a display characteristic of a
display unit and a color chart representative of a color value;

interactively inputting information identifying or indicating a perceived color perception
category of the color displayed on said display unit in accordance with the color chart; and

automatically determining a value approximating the display characteristic of said
display unit in accordance with the color value of the color chart and in accordance with the
interactively inputted information identifying or indicating the perceived color perception category.

15. (TWICE AMENDED) A computer system comprising:

a display displaying an image according to a signal entered, said display displaying the
image with a color displayed according to both the signal and a display characteristic of said
display;

a main frame unit outputting to said display a color chart signal indicating a color value of a monochrome figure and color name signals, which are representative of a plurality of color names corresponding to the color value, respectively; and

an input unit receiving input indicating or identifying a color name interactively selected from among said plurality of color names in accordance with an operation, where the information identifying or indicating the color name is a perceived color of the color value displayed by the display unit according to the color chart signal and the display characteristic,

wherein said main frame unit automatically determines a display characteristic of said display in accordance with the color chart signal outputted toward said display and the color name information received through said input unit.

16. (TWICE AMENDED) A computer system comprising:

a display unit displaying an image according to a signal entered, said display unit displaying the image with a color displayed according to both the signal and a display characteristic of said display unit;

a main frame unit outputting for display by said display unit a series of color chart signals with color values in adjacent color perception areas on a chromaticity diagram, where each area is a different color perception category; and

an input unit for interactively entering information indicating or identifying a perceived color corresponding to a boundary of the color perception categories of colors, which is interactively selected from among the colors displayed on said display unit, to said main frame unit in accordance with an operation,

wherein said main frame unit automatically determines a display characteristic of said display unit in accordance with the color values of the colors displayed on the display unit and the color information interactively entered through said input unit.

17. (ONCE AMENDED) A computer system comprising:

a display unit for displaying an image according to a signal entered, said display unit displaying the image with a color according to both the signal and display characteristics of said display unit;

a main frame unit for outputting to said display unit a series of color chart signals such that a series of colors in adjacent areas for two sorts of colors adjacent to one another on a chromaticity diagram are displayed; and

an input unit for entering a color corresponding to a boundary of the two sorts of colors, which is selected from among the series of colors displayed on said display unit, to said main frame unit in accordance with an operation,

wherein said main frame unit determines display characteristics of said display unit in accordance with the color chart signal outputted toward said display unit and the color entered through said input unit, wherein said main frame unit outputs to said display unit the series of color chart signals, and in addition a message signal representative of a message inquiring as to from which color of the series of colors displayed on said display unit an operator visually identifies it as a color of a specified color name.

18. (TWICE AMENDED) A computer system comprising:
a display displaying an image according to a signal entered, said display displaying a color according to both the signal and a luminance display characteristic of said display;
a main frame unit causing said display to display a plurality of monochrome color patches with mutually different luminances of said display unit, each of the plurality of monochrome color patches being displayed with a same color value corresponding to a specified color name; and
an input unit for interactively selectively one of the monochrome figures displayed with a color of the specified color name of the plurality of monochrome figures displayed on said display unit, to said main frame unit in accordance with an operation,
wherein said main frame unit determines a value of the luminance display characteristic of said display unit in accordance with the color chart signal outputted toward said display unit and the monochrome figure entered through said input unit.

19. (TWICE AMENDED) A computer system according to claim 18, wherein said main frame unit outputs color chart signals representative of a plurality of monochrome figures associated with mutually different luminance of said display unit, each of the plurality of monochrome figures being displayed with such a color that at least a predetermined ratio of persons recognize it as the color of the specified color name under an associated luminance.

20. (TWICE AMENDED) A display characteristics adjusting apparatus for adjusting display characteristics of a display unit for displaying an image according to a signal entered, said display unit displaying the image with a color according to both the signal and display characteristics of said display unit, said display characteristics adjusting apparatus comprising:

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a signal output unit outputting a signal for display to said display unit such signal comprising a color chart signal with a color value belonging to an area of a chromaticity diagram that is adjacent to another area on the chromaticity diagram, the areas representing different color perception categories with a color value belonging to an area of a chromaticity diagram that is adjacent to another area on the chromaticity diagram, the areas representing different color perception categories where the signal is displayed on said display unit in accordance with display characteristics of said display unit.

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22. (TWICE AMENDED) A computer system comprising:
 a display unit displaying an image according to a signal entered, said display unit displaying the image with a color according to both the signal and display characteristics of said display unit;
 an adjusting unit adjusting display characteristics of said display unit in accordance with an operation; and
 a main frame unit for outputting a signal for display to said display unit such signal comprising a color chart signal with a color value belonging to an area of a chromaticity diagram that is adjacent to another area on the chromaticity diagram, the areas representing different color perception categories where the signal is displayed on said display unit in accordance with display characteristics of said display unit.

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23. (ONCE AMENDED) A display characteristics recognition apparatus comprising:
 means for displaying an image on a display unit with a color determined by both an input signal and display characteristics of the display unit, and displaying a color chart signal;
 means for inputting information identifying or indicating a name of a color displayed in accordance with the color chart signal; and
 means for automatically determining display characteristics of said display unit in accordance with the color chart signal and the indicated or identified name of the color.

24. (ONCE AMENDED) A method, comprising:
 displaying an image on a display unit with a displayed color determined by both an input signal and a display characteristic of the display unit, and displaying a color chart signal that specifies a color value corresponding to the displayed color;
 interactively indicating a perceived color perception category of the displayed color; and

automatically determining a value approximating the display characteristic of said display unit based on the color value corresponding to the color chart signal and based on the indication of the perceived color perception category.

25. (ONCE AMENDED) A computer readable storage storing information for enabling a computer to perform a process, the process comprising:

displaying an image on a display unit with a displayed color determined by both an input signal and a display characteristic of the display unit, and displaying a color chart signal that specifies a color value corresponding to the displayed color;

interactively indicating a perceived color perception category of the displayed color; and

automatically determining a value approximating the display characteristic of said display unit based on the color value corresponding to the color chart signal and based on the indication of the perceived color perception category.

26. (ONCE AMENDED) An apparatus, comprising:

a display unit displaying an image on a display unit with a displayed color determined by both an input signal and a display characteristic of the display unit, and displaying a color chart signal that specifies a color value corresponding to the displayed color;

an input unit used to interactively indicate a perceived color perception category of the displayed color; and

a determining unit automatically determining a value approximating the display characteristic of said display unit based on the color value corresponding to the color chart signal and based on the indication of the perceived color perception category.

27. (NEW) A method of color calibration, comprising:

displaying a color with a display system;

receiving interactive input identifying or indicating a perceived color perception category of the displayed color; and

automatically determining a value of a characteristic of the display system based on the interactively indicated color perception category.

28. (NEW) A method according to claim 27, wherein the color perception category is one of two different such categories, and the displayed color is susceptible to being perceived in

either of the two different color perception categories according to the value of the characteristic, and where the characteristic is one of luminance and color temperature.

29. (NEW) A method of color calibration, comprising:
causing a display system to emit a color, where the emitted color is a product of both an unknown value of a characteristic of the display and a color value passed to the display;
receiving input identifying or indicating a perceived color of the emitted color; and
automatically determining the unknown value of the characteristic of the display based on the perceived color of the emitted color.

30. (NEW) A method according to claim 29, wherein the received input identifies the perceived color as one of white, orange, brown, gray, yellow, purple, pink, red, green, blue, or black.

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31. (NEW) A method, comprising:
interactively identifying or indicating a perceived color perception category of a color
emitted by a display system;
automatically selecting a value of a characteristic of the display system based on the perceived general category, where the color value is such that, for different display systems, the emitted color of the color value tends to be perceived as being in a first general color category when emitted with a display system having a first value of the display characteristic, and the emitted color tends to be perceived as being in a second general color category when emitted with a display system having a second value of the display characteristic.

32. (NEW) A method according to claim 31, wherein the automatically selected value of the characteristic of the display system is one of the first and second values of the display characteristic, and wherein the display characteristic is one of luminance and color temperature.

33. (NEW) A method comprising automatically generating a color profile of a display system by interactively identifying perceived color perception categories of predetermined color values displayed by the display system, and matching the perceived color categories to color categories expected to be perceived when displayed with different values of a display characteristic.